

2002
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates
where available

Special Locality Report
221
Town of Gate City

Prepared By
Virginia Department of Transportation
Mobility Management Division

In Cooperation With
U.S. Department of Transportation
Federal Highway Administration

Virginia Department of Transportation
Mobility Management Division
Traffic Monitoring Section

The Virginia Department of Transportation (VDOT) conducts a program where traffic count data are gathered from sensors in or along streets and highways and other sources. From these data, estimates of the average number of vehicles that traveled each segment of road are calculated. VDOT periodically publishes booklets listing these estimates.

One of these booklets, titled "Average Daily Traffic Volumes with Vehicle Classification Data, on Interstate, Arterial and Primary Routes" includes a list of each Interstate and Primary highway segment with the estimated Annual Average Daily Traffic (AADT) for that segment. AADT is the total annual traffic estimate divided by the number of days in the year. This booklet also includes information such as estimates of the percentage of the AADT made up by 6 different vehicle types, ranging from cars to double trailer trucks; estimated Annual Average Weekday Traffic (AAWDT), which is the number of vehicles estimated to have traveled the segment of highway during a 24 hour weekday averaged over the year; as well as Peak Hour and Peak Direction factors used by planners to formulate design criteria.

In addition to the Primary and Interstate publication, one hundred books are published periodically, one for each of 100 areas across the state defined by VDOT for record-keeping purposes. These books include traffic volume estimates for roads within the county, cities, and towns within the area. These books are titled "Daily Traffic Volumes Including Vehicle Classification Estimates, where available; Jurisdiction Report numbers 00 through 99".

Also available are a number of reports summarizing the average Vehicle Miles Traveled (VMT) in selected jurisdictions and other categories of highways. There are many different ways to present traffic volume summary information. Because the user determines the value of each presentation, the reports have been redesigned based on user requests and feedback. The people at VDOT Mobility Management's Traffic Monitoring Section who produce these books welcome requests for other helpful ways of presenting the summary information.

A compact disc (CD) is available that includes files in the Adobe® Portable Document Format (PDF) that can be displayed, searched, and printed using common desktop computer equipment. The CD includes the publications described above as well as a number of other reports, including specialized VMT summaries and smaller AADT reports for each city and town separately.

Publication Notes

Parallel Roads

For road inventory and management purposes, some roadways are counted separately by direction and have separately published traffic estimates for each direction of travel. Examples of such roadways are the interstate system and routes with separated facilities and (usually) one-way traffic facilities in urban areas. In these publications, they are referred to as parallel roads. As a convenience for the users of the publication, the listing for segments of roads with parallel segments are published with both the traffic estimates for their own direction of travel (e.g. I-95 Northbound) as well as the estimate of the total of all traffic on the same route including parallel roadways (all directions of I-95). The publication will have a “Combined Traffic Estimates for Parallel Roadways on this Route” or “Combined Traffic” identifiers for the combined direction of travel estimates.

Roadways such as I-395 with a North segment, a South segment and a separate Reversible lane segment will have the estimate for more than two parallel roadways included in the entire combined traffic estimate.

Some routes have very complicated paths through cities and towns. These parallel paths may be too complex to allow a relationship between nearby sections of the opposite direction on the same route. In this case, to indicate that the traffic estimates for such a road segment may not include all directions of traffic on that route, the line that would list the combined values will indicate “NA” for not available.

VDOT’s traffic monitoring program includes more than 100,000 segments of roads and highways ranging from several mile sections of Interstate highways to very short sections of city streets. Due to problems experienced obtaining some traffic count data, and the level of quality necessary to maintain confidence in the data, no estimate is currently available for some segments of roadway. These segments are included in the publications indicating “NA” for not available. It is the intention of the VDOT’s Mobility Management Traffic Monitoring group to obtain the data necessary and to report traffic volume estimates on all road segments included in these publications.

Many of the road segments in this program are local secondary roads. The amount and detail of data collected on these roads are not as great as the data collected on higher volume roads. The vehicle classification, average weekday traffic volumes, and the theoretical design hour traffic volumes are not calculated for these roads. The publications indicate “NA” for the information that is not available.

This publication is based on a traffic monitoring program initiated in 1997. Because the data collection techniques and statistical evaluation processes are different than those used in previous years, comparison with previous publications may be misleading.

Glossary of Terms:

Route: The Route Number assigned to this segment of roadway with the master inventory route number if this is an overlapping route, with official street or highway name if available.

Length: Length of the traffic segment in miles.

AADT: Annual Average Daily Traffic. The estimate of typical daily traffic on a road segment for all days of the week, Sunday through Saturday, over the period of one year.

QA: Quality of AADT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- H Historical Estimate
- M Manual Uncounted Estimate
- N AADT of Similar Neighboring Traffic Link
- O Provided By External Source
- R Raw Traffic Count, Unfactored

4Tire: Percentage of the traffic volume made up of motorcycles, passenger cars, vans and pickup trucks.

Bus: Percentage of the traffic volume made up of busses.

2Axle Truck: Percentage of the traffic volume made up of 2 axle single unit trucks (not including pickups and vans).

3+Axle Truck: Percentage of the traffic volume made up of single unit trucks with three or more axles.

1Trail Truck: Percentage of the traffic volume made up of units with a single trailer.

2Trail Truck: Percentage of the traffic volume made up of units with more than one trailer.

QC: Quality of Classification Data:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- C Short Term Classified Traffic Count Data
- F Factored Short Term Traffic Count Data
- H Historical Estimate
- M Mass Collective Average
- N Classification Estimates of Similar Neighboring Traffic Link

Peak Hour: The estimate of the traffic volume for the 30th highest traffic volume occurring in a one-year period divided by the AADT for the same one-year period.

QK: Quality of the Peak Hour estimate:

- A Factor based on 30th Highest Hour Observed During 12 Months of Continuous Traffic Data
- B Factor based on 30th Highest Hour Observed During Less than 12 Months of Continuous Traffic Data
- F Factor based on Highest Hour Collected at in a 48 Hour Weekday Period
- M Factor based on Manual Estimate of 30th Highest Hour
- N Peak Hour Factor of Similar Neighboring Traffic Link
- O Provided by External Source

Dir Factor: The estimate of the portion of the traffic volume traveling in the peak direction during the Peak Hour..

AAWDT: Average Annual Weekday Traffic. The estimate of typical traffic over the period of one year for the days between Monday through Thursday inclusive.

QW: Quality of AAWDT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- M Manual Uncounted Estimate
- N AAWDT of Similar Neighboring Traffic Link
- O Provided by External Source

Year: Year for which the published values are appropriate. If the Quality of AADT (QA) is "R", the year is the year that the raw traffic count was collected, and if available,

Route Shield Legend
































Route Systems

North 	Interstate Route	Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.
	US Route	
	Virginia State Route	
	Secondary Route	

Special Routes

Bus 	Bus - Business Route
	Bypas - Bypass Route
	Truck - Truck Route
ALT 	ALT - Alternate Route
	Wve - Wye Route connector
	P - Parallel Route; Southbound or Westbound direction lanes of a numbered route where they are on a different road facility than the other direction.
	The VDOT Maintenance Jurisdiction number is displayed below the Secondary Route Number if the Maintenance Jurisdiction is different than the jurisdiction in the title of the report.

Virginia Department of Transportation
Mobility Management Division
2002
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Gate City

Route		Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year
							2Axle	3+Axle	1Trail	2Trail							
Town of Gate City																	
		0.61	30000	N	From:	SCL Gate City					N	0.080	N	0.552	30000	N	2002
					To:												
		0.16	12000	A	From:	Bus US 23 East of Gate City					A	0.098	A	0.592	12000	A	2002
					To:												
		0.36	12000	N	From:	NCL Gate City					N	0.098	N	0.592	12000	N	2002
					To:												
		0.23	19000	G	From:	US 23 South of Gate City					F	0.091	F	0.517	20000	G	2002
					To:												
		0.47	11000	G	From:	84-836 Jones St					C	0.085	F	0.565	11000	G	2002
					To:												
		0.12	8800	G	From:	84-836					F	0.090	F	0.556	9300	G	2002
					To:												
		0.15	13000	G	From:	SR 71					F	0.095	F	0.514	13000	G	2002
					To:												
		0.84	5600	G	From:	84-665 Moccasin Ave					F	0.088	F	0.554	5900	G	2002
					To:												
		0.80	3500	G	From:	84-665					C	0.089	F	0.548	3700	G	2002
					To:												
 		0.36	12000	N	From:	84-763					N	0.098	N	0.592	12000	N	2002
					To:												
 		0.16	12000	A	From:	NCL Gate City					A	0.098	A	0.592	12000	A	2002
					To:												
 		0.61	30000	N	From:	BUS US 23 East of Gate City					N	0.080	N	0.552	30000	N	2002
					To:												
 		0.80	3500	G	From:	SCL Gate City					C	0.089	F	0.548	3700	G	2002
					To:												
 		0.84	5600	G	From:	CL Gate City					F	0.088	F	0.554	5900	G	2002
					To:												
 		0.15	13000	G	From:	84-762					F	0.095	F	0.514	13000	G	2002
					To:												
 		0.12	8800	G	From:	84-763					F	0.090	F	0.556	9300	G	2002
					To:												
 		0.47	11000	G	From:	84-665					C	0.085	F	0.565	11000	G	2002
					To:												
 		0.23	19000	G	From:	SR 71					F	0.091	F	0.517	20000	G	2002
					To:												
		0.55	5100	G	From:	84-836					F	0.086	F	0.564	5300	G	2002
					To:												
		0.85	7500	G	From:	US 23 Bus					F	0.089	F	0.68	7900	G	2002
					To:												
 		0.36	12000	N	From:	84-904					N	0.098	N	0.592	12000	N	2002
					To:												

Virginia Department of Transportation
Mobility Management Division
2002
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Gate City

Route	Length	AADT	QA	4Tire	Bus	Truck				QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
Town of Gate City																
421 23	0.16	12000	A	From:	NCL Gate City					A	0.098	A	0.592	12000	A	2002
				To:												
421 23	0.61	30000	N	From:	BUS US 23 Bus East of Gate City					N	0.080	N	0.552	30000	N	2002
				To:	SCL Gate City											
Bus 421 Bus 23	0.23	19000	G	From:	US 23 SOUTH OF GATE CITY					F	0.091	F	0.517	20000	G	2002
				To:	84-836											
Bus 421 Bus 23	0.47	11000	G	From:						C	0.085	F	0.565	11000	G	2002
				To:	SR 71											
Bus 421 Bus 23	0.12	8800	G	From:						F	0.090	F	0.556	9300	G	2002
				To:	84-665											
Bus 421 Bus 23	0.15	13000	G	From:						F	0.095	F	0.514	13000	G	2002
				To:	84-763											
Bus 421 Bus 23	0.84	5600	G	From:						F	0.088	F	0.554	5900	G	2002
				To:	84-762											
Bus 421 Bus 23	0.80	3500	G	From:						C	0.089	F	0.548	3700	G	2002
				To:	CL Gate City											
619 84	0.21	660	R	From:	US 23					NA				NA		1997
				To:	ECL GATE CITY											
619 84	0.01	NA		From:						NA				NA		
				To:	84-793											
619 84	0.33	920	R	From:						NA				NA		1997
				To:	SR 71											
619 84	0.37	1800	R	From:						NA				NA		1997
				To:	NCL GATE CITY											
665 84	0.04	770	R	From:	Dead End					NA				NA		1997
				To:	US 23											
665 84	0.08	2100	G	From:						C	0.088	F	0.629	2200	G	2002
				To:	84-782											
665 84	0.07	2000	G	From:						F	0.088	F	0.642	2100	G	2002
				To:	84-813											
665 84	0.08	1800	G	From:						F	0.091	F	0.642	1900	G	2002
				To:	84-781											
665 84	0.17	1600	G	From:						F	0.092	F	0.642	1700	G	2002
				To:	84-819											
665 84	0.26	1500	G	From:						C	0.093	F	0.583	1500	G	2002
				To:	NCL GATE CITY											
666 84	0.29	630	R	From:	NCL GATE CITY					NA				NA		1997
				To:	SR 71											
762 84	0.14	360	R	From:	US 23					NA				NA		1997
				To:	Dead End											
763 84	0.40	350	R	From:	84-1422					NA				NA		1997
				To:	US 23 BUS											
763 84	0.11	390	R	From:						NA				NA		1997
				To:	84-783											

Virginia Department of Transportation
Mobility Management Division
2002
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Gate City

Route	Length	AADT	QA	4Tire	Bus	Truck				QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year
Town of Gate City																
<div>764</div> <div>84</div>	0.18	110	R	From:	84-765						NA			NA		1997
				To:	84-763											
<div>765</div> <div>84</div>	0.03	130	R	From:	84-763						NA			NA		1992
				To:	US 23											
<div>765</div> <div>84</div>	0.02	60	R	From:	84-764						NA			NA		07/25/2000
				To:	84-763											
<div>766</div> <div>84</div>	0.03	90	R	From:	US 23						NA			NA		07/25/2000
				To:	US 23											
<div>766</div> <div>84</div>	0.07	320	R	From:	84-831						NA			NA		07/25/2000
				To:	84-1415											
<div>767</div> <div>84</div>	0.39	930	R	From:	SR 71						NA			NA		07/31/2000
				To:	84-768											
<div>767</div> <div>84</div>	0.10	940	R	From:	US 23						NA			NA		07/31/2000
				To:	SR 71											
<div>768</div> <div>84</div>	0.13	1500	R	From:	84-768 BEGIN LOOP						NA			NA		07/25/2000
				To:	US 23 BUS											
<div>769</div> <div>84</div>	0.07	680	R	From:	Dead End Gap Termin						NA			NA		07/31/2000
				To:	Dead End Gap Terminus											
<div>769</div> <div>84</div>	0.06	50	R	From:	SR 71						NA			NA		07/31/2000
				To:	84-665											
<div>781</div> <div>84</div>	0.19	150	R	From:	84-767						NA			NA		07/25/2000
				To:	Dead End											
<div>782</div> <div>84</div>	0.24	180	R	From:	84-767						NA			NA		07/25/2000
				To:	Dead End											
<div>783</div> <div>84</div>	0.10	160	R	From:	84-763						NA			NA		07/25/2000
				To:	SR 23											
<div>784</div> <div>84</div>	0.06	170	R	From:	84-798						NA			NA		07/25/2000
				To:	BUS US 23											
<div>785</div> <div>84</div>	0.07	NA		From:	84-782						NA			NA		
				To:	84-781											
<div>785</div> <div>84</div>	0.16	170	R	From:	84-819						NA			NA		07/25/2000
				To:	84-619											
<div>793</div> <div>84</div>	0.19	110	R	From:	SR 71 WEST						NA			NA		07/25/2000
				To:	ECL GATE CITY											

Virginia Department of Transportation
Mobility Management Division
2002
Annual Average Daily Traffic Volume Estimates By Section of Route
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						2Axle	3+Axle	1Trail	2Trail							
Town of Gate City																
798 84	0.48	190	R	From:		Dead End					NA			NA		07/25/2000
				To:		84-779										
799 84	0.07	220	R	From:		84-798					NA			NA		07/25/2000
				To:		US 23										
813 84	0.07	130	R	From:		84-814					NA			NA		07/25/2000
				To:		84-665										
814 84	0.28	60	R	From:		84-819					NA			NA		07/25/2000
				To:		Dead End										
819 84	0.12	50	R	From:		84-814					NA			NA		07/25/2000
				To:		Dead End										
820 84	0.07	40	R	From:		Dead End					NA			NA		07/25/2000
				To:		84-819										
823 84	0.12	740	R	From:		84-769					NA			NA		07/31/2000
				To:		84-836										
824 84	0.37	150	R	From:		84-835					NA			NA		07/25/2000
				To:		84-1419										
831 84	0.04	320	R	From:		84-832					NA			NA		07/25/2000
				To:		84-766										
832 84	0.39	190	R	From:		Dead End					NA			NA		07/25/2000
				To:		84-831										
835 84	0.22	120	R	From:		84-824					NA			NA		07/25/2000
				To:		Dead End										
836 84	0.06	10000	G	From:	96%	0%	0%	3%	0%	0%	F	0.09	F	0.533	11000	G 2002
836 84	0.41	1100	R	To:		84-823					NA			NA		07/31/2000
				To:		84-1428										
838 84	0.07	30	R	From:		84-839					NA			NA		07/25/2000
				To:		Dead End										
839 84	0.05	80	R	From:		84-838					NA			NA		07/25/2000
				To:		84-832										
842 84	0.23	140	R	From:		84-824					NA			NA		07/25/2000
				To:		84-768										
843 84	0.06	140	R	From:		84-798					NA			NA		07/25/2000
				To:		84-853										
844 84	0.09	340	R	From:		84-768					NA			NA		07/31/2000
				To:		US 23 BUS										
844 84	0.15	180	R	From:							NA			NA		07/31/2000
				To:		Dead End										

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						2Axle	3+Axle	1Trail	2Trail							
Town of Gate City																
849 84	0.07	60	R	From:		84-798					NA			NA		07/25/2000
				To:		Dead End										
850 84	0.06	30	R	From:		84-851					NA			NA		07/25/2000
				To:		Dead End										
851 84	0.19	160	R	From:		84-762					NA			NA		07/25/2000
				To:		84-850										
853 84	0.11	130	R	From:		84-850					NA			NA		07/25/2000
				To:		84-843										
889 84	0.19	280	R	From:		84-836					NA			NA		07/31/2000
				To:		84-619										
898 84	0.15	90	R	From:		84-1425					NA			NA		07/25/2000
				To:		84-768										
904 84	0.23	8000	G	From:	97%	0%	2%	1%	0%	0%	C	0.085	F	0.664	8400	G
				To:		SR 71										2002
905 84	0.04	160	R	From:		SR 71					NA			NA		07/25/2000
				To:		SR 906										
906 84	0.07	90	R	From:		Dead End					NA			NA		05/18/2000
				To:		84-905										
906 84	0.10	60	R	From:		84-619					NA			NA		05/18/2000
				To:		84-836										
930 84	0.08	60	R	From:		84-836					NA			NA		1994
				To:		84-931										
931 84	0.10	60	R	From:		84-836					NA			NA		1994
				To:		84-930										
931 84	0.03	20	R	From:		84-930					NA			NA		1994
				To:		Dead End										
932 84	0.04	20	R	From:		Dead End					NA			NA		1992
				To:		84-842										
1401 84	0.07	150	R	From:		SR 71					NA			NA		1992
				To:		84-1403										
1402 84	0.07	46	R	From:		SR 71					NA			NA		1992
				To:		84-1403										
1403 84	0.12	60	R	From:		84-1401					NA			NA		1992
				To:		84-1402										
1404 84	0.06	20	R	From:		SR 71					NA			NA		1994
				To:		Dead End										
1405 84	0.16	140	R	From:		US 23 BUS					NA			NA		1992
				To:		Dead End										

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Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
Town of Gate City																
1406 84	0.15	50	R	From:	Dead End					NA		NA		1992		
				To:	84-1405											
1407 84	0.10	60	R	From:	US 23 BUS					NA		NA		1992		
				To:	84-1406											
1408 84	0.10	70	R	From:	84-1409					NA		NA		1992		
				To:	84-1406											
1409 84	0.06	110	R	From:	84-1408					NA		NA		1992		
				To:	84-1407											
1410 84	0.12	220	R	From:	84-906					NA		NA		1996		
				To:	Dead End											
1411 84	0.15	NA		From:	84-00665(L)/					NA		NA				
				To:	C1US-00023(B)/											
1412 84	0.11	50	R	From:	84-1413					NA		NA		1994		
				To:	0.11 MN 84-1413											
1412 84	0.15	150	R	From:						NA		NA		1992		
				To:	US 23 BUS											
1413 84	0.03	20	R	From:	Dead End					NA		NA		1994		
				To:	84-1412											
1413 84	0.04	130	R	From:						NA		NA		1994		
				To:	Dead End											
1415 84	0.29	180	R	From:	84-767					NA		NA		1992		
				To:	Dead End											
1416 84	0.05	30	R	From:	84-785					NA		NA		1996		
				To:	Dead End											
1417 84	0.04	50	R	From:	84-781					NA		NA		1996		
				To:	Dead End											
1419 84	0.04	NA		From:	SR 71					NA		NA				
				To:	84-824											
1420 84	0.07	10	R	From:	84-1401					NA		NA		1994		
				To:	84-1421											
1420 84	0.06	30	R	From:						NA		NA		1994		
				To:	84-1402											
1421 84	0.05	30	R	From:	84-1420					NA		NA		1994		
				To:	84-1403											
1422 84	0.02	NA		From:	Dead End					NA		NA				
				To:	84-763											
1425 84	0.19	50	R	From:	84-898					NA		NA		1994		
				To:	Dead End											

Virginia Department of Transportation
Mobility Management Division
2002
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Gate City

Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	Peak Hour	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
Town of Gate City																
1427 84	0.24	210	R	From:	SR 71						NA			NA		05/18/2000
				To:	Dead End											
1428 84	0.13	3	R	From:	Dead End						NA			NA		1994
				To:	84-836; 84-931											
9380 84	0.15	90	R	From:	84-836						NA			NA		1986
				To:	SCOTT CO VOC SCHOOL											
9380 84	0.11	150	R	From:							NA			NA		1986
				To:	Dead End											
9763 84	0.15	870	R	From:	US 23 BUS						NA			NA		1986
				To:	GATE CITY HIGH SCH											
9839 84	0.12	520	R	From:	SHOEMAKER ELEM SCH						NA			NA		1986
				To:	84-769											